

## WHAT IS CLAIMED IS:

1. A method for reducing the effect of bleed-through on a captured image comprising:

illuminating a physical medium with light having a first illumination quality;  
recording a first image of the physical medium;  
illuminating the physical medium with light having a second illumination quality;  
recording a second image of the physical medium; and  
combining the first and the second image to form a captured image.

2. The method as in Claim 1, wherein a single illumination source provides said light having a first illumination quality and said light having a second illumination quality. *One light off - 2nd on different intensity*

3. The method as in Claim 1, wherein a first illumination source provides said light having a first illumination quality and a second illumination source provides said light having a second illumination quality.

4. The method as in Claim 1, wherein the first illumination quality is a first illumination intensity, and the second illumination quality is a second illumination intensity.

5. The method as in Claim 1, wherein the first illumination quality is a first frequency of light, and the second illumination quality is a second frequency of light.

6. The method as in Claim 1, wherein the first image of the physical medium is recorded using light reflected from the physical medium, and the second image of the physical medium is recorded using light transmitted through the physical medium.

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7. A digital file tangibly embodied in a computer readable medium, said digital file generated by implementing a method that reduces the effects of bleed through in a physical medium, the method comprising:

illuminating the physical medium with light having a first illumination quality;  
recording a first image of the physical medium;  
illuminating the physical medium with light having a second illumination quality;  
recording a second image of the physical medium; and  
combining the first and the second image to form a captured image.

8. The digital file as in Claim 7, wherein the first illumination quality is a first illumination intensity, and the second illumination quality is a second illumination intensity.

9. The digital file as in Claim 7, wherein the first image of the physical medium is recorded using light reflected from the physical medium, and the second image of the physical medium is recorded using light transmitted through the physical medium.

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10. An image-capturing system comprising:
- at least one illumination source, said at least one illumination source capable of illuminating said physical medium such that light is reflected from said physical medium and transmitted through said physical medium;
  - at least one detector, said detector enabled to generate signals in response to said light reflected from said physical medium and said light transmitted through said physical medium, and said detector further enabled to output said signals for image processing; and
  - an information handling system, said information handling system comprising:
    - at least one processor;
    - memory operably associated with said processor; and
    - a program of instructions capable of being stored in said memory and executed by said processor, said program of instructions enabled to control illumination of the physical medium, receive said electrical signals output by said at least one detector, and process said electrical signals to form a captured image having reduced bleed-through.
11. The image-capturing system as in Claim 10, further comprising a plurality of illumination sources, wherein a first illumination source is enabled to provide said light reflected from said physical medium, and a second illumination source is enabled to provide said light transmitted through said medium.
12. The image-capturing system as in Claim 11, wherein said first illumination source is configured to illuminate a first side of the physical medium, and said second illumination source is configured to illuminate a second side of the physical medium.
13. The image-capturing system as in Claim 11, wherein said first illumination source provides a first illumination intensity, and said second illumination source provides a second illumination intensity.

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14. The image-capturing system as in Claim 11, wherein said first illumination source provides a first frequency of light and said second illumination source provides a second frequency of light.

15. The image-capturing system as in Claim 10, wherein said at least one illumination source is configured to illuminate said physical medium a plurality of times.

16. The image-capturing system as in Claim 15, wherein said at least one illumination source illuminates said physical medium a first time with light having a first illumination intensity and at least a second time with light having an illumination intensity different from said first illumination intensity.

17. The image-capturing system as in Claim 15, wherein said at least one illumination source illuminates said physical medium a first time with light having a first frequency and at least a second time with light having a frequency different from said first frequency.

18. The image-capturing system as in Claim 10, wherein said image capturing system comprises a facsimile device.

19. The image-capturing system as in Claim 10, wherein said image capturing system comprises a copy machine.

20. The image-capturing system as in Claim 10, wherein said image capturing system comprises a scanner.

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21. An image-capturing system comprising:

at least one illumination source, said at least one illumination source capable of illuminating said physical medium with light having a first illumination characteristic and light having at least a second illumination characteristic different from said first illumination characteristic;

at least one detector, said detector enabled to generate electrical signals in response to light reflected from said physical medium, and said detector further enabled to output said electrical signals for image processing.

22. An image-capturing system as in Claim 21, wherein said first illumination characteristic is a first illumination intensity and said second illumination characteristic is a second illumination intensity different from said first illumination intensity.

23. The image-capturing system as in Claim 21, wherein said image capturing system comprises a facsimile device.

24. The image-capturing system as in Claim 21, wherein said image capturing system comprises a copy machine.

25. The image-capturing system as in Claim 21, wherein said image capturing system comprises a scanner.

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26. A method for correcting bleed-through in a captured image comprising:  
obtaining information indicative of a first image density of an image formed on  
a physical medium;

obtaining information indicative of a second image density of the image formed  
on the physical medium;

comparing the information indicative of the first image density with the  
information indicative of the second image density to determine what portions of the  
information are due to bleed-through; and

altering the portions of the information that are due to bleed-through in the  
physical medium to form a corrected image.

27. The method as in Claim 26, wherein the information indicative of a first image  
density is obtained using reflected light and the information indicative of the second  
image density is obtained using transmitted light.

28. The method as in Claim 26, wherein the information indicative of a first image  
density and the information indicative of a second image density are each obtained using  
reflected light.

29. The method as in Claim 26, wherein the information indicative of a first image  
density is obtained using light having a first frequency, and the information indicative of  
the second image density is obtained using light having a second frequency different from  
the first frequency.